

SEQUENCE LISTING

<110> GIMENO, Ruth

<120> METHODS FOR THE TREATMENT OF METABOLIC
DISORDERS, INCLUDING OBESITY AND DIABETES

<130> MNI-220

<150> 60/271,655

<151> 2001-02-26

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Cys	Ala	Arg	Ala	Ala	Gly	Asp	Ala	Pro	
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aac	cg	acc	cg	ttt	ccc	ttc	ttc	tcc	151
Asn	Arg	Thr	Arg	Phe	Pro	Phe	Phe	Ser	
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ctg	gtg	ctg	gcc	gcg	gtg	gag	aca	acc	199
Leu	Val	Leu	Ala	Ala	Val	Glu	Thr	Thr	
			40					45	50
gtg	tgc	ctg	ctg	ggc	aac	gtg	tgc	gcc	247
Val	Ser	Leu	Leu	Gly	Asn	Val	Cys	Ala	
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cga	cg	cg	ggc	gcg	act	gcc	tgc	ctg	295
Arg	Arg	Arg	Gly	Ala	Thr	Ala	Cys	Leu	
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gac	ctg	ctc	ttc	atc	agc	gct	atc	cct	343
Asp	Leu	Leu	Phe	Ile	Ser	Ala	Ile	Pro	
85					90			95	100
act	gag	gcc	tgg	ctg	ctg	ggc	ccc	gtt	391
Thr	Glu	Ala	Trp	Leu	Leu	Gly	Pro	Val	
				105				110	115
gtg	atg	acc	ctg	agc	ggc	agc	gtc	acc	439
Val	Met	Thr	Leu	Ser	Gly	Ser	Val	Thr	

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	ggc cct ggg cgg cgg gcg cgg gca gtg ctg ctg gcg ctc atc tgg ggc			535
	Gly Pro Gly Arg Arg Ala Arg Ala Val Leu Leu Ala Leu Ile Trp Gly			
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	tat tcg gcg gtc gcc gct ctg cct ctc tgc gtc ttc ttt cga gtc gtc			583
	Tyr Ser Ala Val Ala Ala Leu Pro Leu Cys Val Phe Phe Arg Val Val			
	165	170	175	180
	ccg caa cgg ctc ccc ggc gcc gac cag gaa att tcg att tgc aca ctg			631
	Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser Ile Cys Thr Leu			
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	Ile Trp Pro Thr Ile Pro Gly Glu Ile Ser Trp Asp Val Ser Phe Val			
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	act ttg aac ttc ttg gtg cca gga ctg gtc att gtg atc agt tac tcc			727
	Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val Ile Ser Tyr Ser			
		215	220	225
	aaa att tta cag atc aca aag gca tca agg aag agg ctc acg gta agc			775
	Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg Leu Thr Val Ser			
		230	235	240
	ctg gcc tac tcg gag agc cac cag atc cgc gtg tcc cag cag gac ttc			823
	Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser Gln Gln Asp Phe			
		245	250	255
	cgg ctc ttc cgc acc ctc ttc ctc ctc atg gtc tcc ttc ttc atc atg			871
	Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser Phe Phe Ile Met			
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	tgg agc ccc atc atc atc acc atc ctc ctc atc ctg atc cag aac ttc			919
	Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu Ile Gln Asn Phe			
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	aag caa gac ctg gtc atc tgg ccg tcc ctc ttc ttc tgg gtg gtg gcc			967
	Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe Trp Val Val Ala			
		295	300	305
	ttc aca ttt gct aat tca gcc cta aac ccc atc ctc tac aac atg aca			1015
	Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu Tyr Asn Met Thr			
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	ctg tgc agg aat gag tgg aag aaa att ttt tgc tgc ttc tgg ttc cca			1063
	Leu Cys Arg Asn Glu Trp Lys Lys Ile Phe Cys Cys Phe Trp Phe Pro			
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	gaa aag gga gcc att tta aca gac aca tct gtc aaa aga aat gac ttg			1111
	Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys Arg Asn Asp Leu			
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Gly Asp His Arg Leu Val Leu Ala Val Glu Thr Thr Val Leu Val
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Leu Ile Phe Ala Val Ser Leu Gly Asn Val Cys Ala Leu Val Leu
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Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val Leu Asn
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Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro Leu Val Leu
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Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val His Leu Gln
          130          135          140
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          145          150          155          160
Leu Ile Trp Gly Tyr Ser Ala Val Ala Ala Leu Pro Leu Cys Val Phe
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Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln Glu Ile Ser
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Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile Ser Trp Asp
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Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val
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Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
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Phe Phe Ile Met Trp Ser Pro Ile Ile Thr Ile Leu Leu Ile Leu
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Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
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Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile Phe Cys Cys
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 gccgggcgcc cggc atg tcc cct gag tgt gca cag acg acg ggc cct ggt 230
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 Pro Ser His Thr Leu Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe
 15 20 25
 tcg gat gtc aag ggc gac cac cgg ttg gtg ttg agc gtc gtg gag acc 326
 Ser Asp Val Lys Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr
 30 35 40
 acc gtt ctg gga ctc atc ttt gtc gtc tca ctg ctg ggc aac gtg tgt 374
 Thr Val Leu Gly Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys
 45 50 55 60
 gct cta gtg ctg gtg gcg cgc cgt cgg cgc cgt ggg gcg tca gcc agc 422

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65 70 75

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Leu Val Leu Asn Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile
80 85 90

cct cta gtg ctc gtc gtg cgc tgg act gag gcc tgg ctg ttg ggg ccc 518
Pro Leu Val Leu Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro
95 100 105

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Val Val Cys His Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val
110 115 120

acg atc ctc aca ctg gcc gcg gtc agc ctg gag cgc atg gtg tgc atc 614
Thr Ile Leu Thr Leu Ala Val Ser Leu Glu Arg Met Val Cys Ile
125 130 135 140

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Val Arg Leu Arg Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala
145 150 155

gca ctg ctg gct ttc ata tgg ggt tac tcg gcg ctc gcc gcg ctg ccc 710
Ala Leu Leu Ala Phe Ile Trp Gly Tyr Ser Ala Leu Ala Leu Pro
160 165 170

ctc tac atc ttg ttc cgc gtg gtc ccg cag cgc ctt ccc ggc ggg gac 758
Leu Tyr Ile Leu Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp
175 180 185

cag gaa att ccg att tgc aca ttg gat tgg ccc aac cgc ata gga gaa 806
Gln Glu Ile Pro Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu
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205 210 215 220

ctg gtc att gtg atc agt tac tcc aaa att tta cag atc acg aaa gca 902
Leu Val Ile Val Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala
225 230 235

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Ser Arg Lys Arg Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln
240 245 250

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Ile Arg Val Ser Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu
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ctc atg gtt tcc ttc ttc atc atg tgg agt ccc atc atc atc acc atc 1046
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270 275 280

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285 290 295 300

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 335 340 345

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 Thr Ser Val Arg Arg Asn Asp Leu Ser Val Ile Ser Ser *
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 Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala
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 Phe Ile Trp Gly Tyr Ser Ala Leu Ala Ala Leu Pro Leu Tyr Ile Leu
 165 170 175
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 180 185 190
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 195 200 205
 Val Phe Phe Glu Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val
 210 215 220
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 225 230 235 240
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 245 250 255
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 Phe Phe Ile Met Trp Ser Pro Ile Ile Thr Ile Leu Leu Ile Leu

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305	310	315
Tyr Asn Met Ser Leu Phe Arg Asn Glu Trp Arg Lys Ile Phe Cys Cys		
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